

BHAGWAN MAHAVIR COLLEGE OF ENGG. & TECH.

SUBJECT NAME: CONSTRUCTION MANAGEMENT

SUBJECT CODE: 2180611

Assignment-01

1. What is Project? Explain Phases of construction Project.
2. What is Project Management? What is Construction Management ? Explain Need of Construction Management & Objectives of Construction Management.
3. Explain Functions Of Construction Management.
4. Explain Construction Project categories.

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Assignment-02

1. Define: Construction Company, Organization.
2. What is Principle of Organization & Types of Structure of construction Organization?
3. Explain Organization for Project Management.
4. What are factors for success of Construction Organization?

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Assignment-03

1. What is Economics decision management? Explain methods for Economics decision management.
2. What is cash flow diagram? Explain purpose & their Parts.
3. Explain
 - a) Effect of Taxation on comparison of alternative
 - b) Effect of Inflation on cash flow
 - c) Evaluation of Public Projects

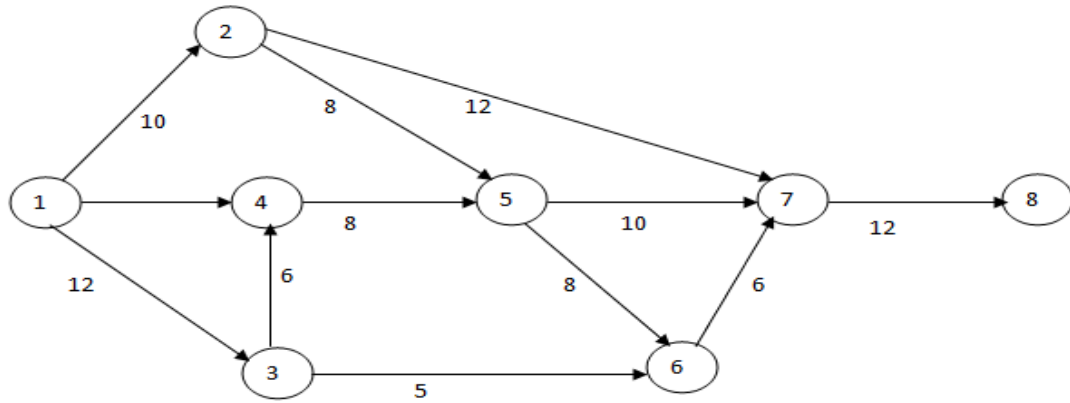
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Assignment-04

1. What is Construction Planning? Explain Objects, Limitations Principle of construction Planning.
2. Explain work Break down Structure.
3. What is Project Management Techniques? Explain Limitations of Bar charts & Remedial Measures.
4. Difference between I) Activity vs. Event II) A-O-A vs. A-O-N System III) C.P.M. vs. P.E.R.T.
5. Write the definition of below terms:
 - a. Earliest expected event time (T_E)
 - b. Latest allowable occurrence time (T_L)
 - c. Earliest start time(EST)
 - d. Earliest finish time(EFT)
 - e. Latest start time(LST)
 - f. Latest finish time(LFT)
6. For the below network find the Earliest expected event time (T_E) and Latest allowable occurrence time (T_L). Then from it determine earliest start time (EST), earliest finish time (EFT), latest start time (LST), latest finish time (LFT) , Total Float(T_F), Free Float(F_F) , Independent Float(I_{DF})and also find the critical path of the network.



7. From the data given in below table, prepare the network diagram with the estimated duration for each activity times each activity marked, determine:
- Earliest and latest activity times for each activity.
 - Total float, free float and independent float.
 - Determine the critical path.

Activity	Activity arrow i-j	Duration t^{ij} days	Activities immediately	
			preceding	following
A	1-2	3	-	D
B	1-3	2	-	E,F
C	1-4	2	-	G
D	2-5	4	A	H
E	3-6	4	B	I
F	3-7	7	B	J
G	4-7	4	C	J
H	5-8	2	D	K
I	6-8	5	E	K
J	7-9	6	F,G	-
K	8-9	3	H,I	-

8. A small project consists of seven activities. The time estimates are given below.

Activity/ Time (in weeks)	1-2	1-3	1-4	2-5	3-5	4-6	5-6
t_o	1	1	2	1	2	2	3
t_m	1	4	2	1	5	5	6
t_p	7	7	8	1	14	8	15

- (1) Draw the network.
- (2) Determine the critical path.
- (3) What is the probability of completing the project within 18 weeks?

Z value	+0.3	+0.4	-1.0	+1.0
Probability (%)	61.79	65.54	15.87	84.13

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Assignment-05

1. Explain in detail Resource Smoothing Method and also their steps of resource allocation problems.
2. What are objectives of Resource Allocation? Explain what do you mean by Resource Levelling? Explain Step by Step Process of Resource Levelling.
3. Explain why time cost tradeoff is necessary? Discuss various ways to reduce the activity duration.

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Assignment-06

1. Explain sensitivity Analysis.
2. Explain Breakeven Analysis.

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Assignment-07

1. What is principle of accounting & accounting process
2. Explain Construction Contract revenue recognition
3. Explain I) profit and loss account II) working capital III) ratio analysis

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Assignment-08

1. Explain objective & functions of material management.
2. Explain inventory management.
3. What is job layout? What is its purpose? List factor affecting job layout.

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Assignment-09

1. Explain Project Cost Management in detail.
2. Why is the cost code important?
3. Define: worth, cost, value.
4. Discuss the various steps involved in the application of value engineering.

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Assignment-10

1. Explain Quality Control (QC).
2. Explain principles of Total Quality management (TQM) and Explain TQM model with figures.
3. Enlist name of different quality gurus and explain their teachings in details.
4. Explain principles of quality management system.

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Assignment-11

1. Explain different accident causation theories.
2. Explain cost of accidents.
3. Explain causes of accidents.
4. Explain safety indicators.

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Assignment-12

1. Explain Graphical method for solving linear programming problems.
2. Explain different steps of Simplex Method.

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Assignment-13

1. Explain criteria for project performance evolution.
2. Explain project performance attributes.